

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 21, 2001, 12:06:13 ; Search time 20.59 seconds
(without alignments)
924.523 Million cell updates/sec

Title: US-09-486-334-2
Perfect score: 1641
Sequence: 1 MATCIDRCRGNQDDSRF.....IPCLTMDQTSYLEMSDYVI 314

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 412676 seqs, 60623988 residues
Total number of hits satisfying chosen parameters: 412676

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
A_Geneseq_0601: *
1: /SIDSR/gcgdata/geneseq/geneseq/AA1980.DAT: *
2: /SIDSR/gcgdata/geneseq/geneseq/AA1981.DAT: *
3: /SIDSR/gcgdata/geneseq/geneseq/AA1982.DAT: *
4: /SIDSR/gcgdata/geneseq/geneseq/AA1983.DAT: *
5: /SIDSR/gcgdata/geneseq/geneseq/AA1984.DAT: *
6: /SIDSR/gcgdata/geneseq/geneseq/AA1985.DAT: *
7: /SIDSR/gcgdata/geneseq/geneseq/AA1986.DAT: *
8: /SIDSR/gcgdata/geneseq/geneseq/AA1987.DAT: *
9: /SIDSR/gcgdata/geneseq/geneseq/AA1988.DAT: *
10: /SIDSR/gcgdata/geneseq/geneseq/AA1989.DAT: *
11: /SIDSR/gcgdata/geneseq/geneseq/AA1990.DAT: *
12: /SIDSR/gcgdata/geneseq/geneseq/AA1991.DAT: *
13: /SIDSR/gcgdata/geneseq/geneseq/AA1992.DAT: *
14: /SIDSR/gcgdata/geneseq/geneseq/AA1993.DAT: *
15: /SIDSR/gcgdata/geneseq/geneseq/AA1994.DAT: *
16: /SIDSR/gcgdata/geneseq/geneseq/AA1995.DAT: *
17: /SIDSR/gcgdata/geneseq/geneseq/AA1996.DAT: *
18: /SIDSR/gcgdata/geneseq/geneseq/AA1997.DAT: *
19: /SIDSR/gcgdata/geneseq/geneseq/AA1998.DAT: *
20: /SIDSR/gcgdata/geneseq/geneseq/AA1999.DAT: *
21: /SIDSR/gcgdata/geneseq/geneseq/AA2000.DAT: *
22: /SIDSR/gcgdata/geneseq/geneseq/AA2001.DAT: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1641	100.0	314	21	AA645802 Arabidopsis thalia
2	1641	100.0	314	21	AA93901 Arabidopsis thalia
3	1349	82.2	263	21	AA645803 Arabidopsis thalia
4	1215	74.0	336	21	AA93903 Arabidopsis thalia
5	1215	74.0	391	21	AA93904 Arabidopsis thalia
6	1213	73.9	1772	21	AA652485 Arabidopsis thalia
7	1213	73.9	1776	21	AA652484 Arabidopsis thalia
8	1213	73.9	1787	21	AA652483 Arabidopsis thalia
9	916	55.8	180	21	AA608083 Arabidopsis thalia
10	880	53.6	286	21	AA944770 Soybean serine O-ac
11	849.5	51.8	312	21	AA639465 Arabidopsis thalia

12	849.5	51.8	312	21	AA93902 Amino acid sequenc
13	846.5	51.6	312	21	AA621076 Arabidopsis thalia
14	846	51.6	294	21	AA944767 Impatiens balsamia
15	831	50.6	303	21	AA944768 Rice serine O-acet
16	723.5	44.1	224	21	AA944769 Rice serine O-acet
17	711	43.3	359	21	AA93905 Amino acid sequenc
18	656	40.0	157	21	AA944771 Soybean serine O-a
19	652.5	39.8	273	18	AAW35073 E. coli serine ace
20	648.5	39.5	258	18	AAW35084 E. coli serine ace
21	648.5	39.5	259	18	AAW35083 E. coli serine ace
22	648.5	39.5	263	18	AAW35093 E. coli serine ace
23	648.5	39.5	268	18	AAW35092 E. coli serine ace
24	648.5	39.5	270	18	AAW35091 E. coli serine tran
25	648.5	39.5	271	18	AAW35090 E. coli serine tran
26	648.5	39.5	273	13	AAW35074 E. coli serine ace
27	648.5	39.5	273	18	AAW35073 E. coli serine ace
28	648.5	39.5	273	18	AAW16618 Wild type Escheric
29	648.5	39.5	273	20	AAW3827 Protein encoded by
30	648.5	39.5	273	21	AAW57823 Escherichia coli s
31	646.5	39.4	273	18	AAW57823 E. coli serine ace
32	645.5	39.3	273	18	AAW35070 Escherichia coli s
33	645	39.3	253	21	AAW57826 Escherichia coli s
34	644	39.2	253	21	AAW57827 E. coli serine ace
35	643.5	39.2	257	18	AAW35085 E. coli serine ace
36	643.5	39.2	273	18	AAW35075 E. coli serine ace
37	643.5	39.2	273	18	AAW35077 E. coli serine ace
38	642.5	39.2	273	18	AAW35071 E. coli serine ace
39	642.5	39.2	273	18	AAW35068 E. coli serine ace
40	642	39.1	123	21	AAW35084 Arabidopsis thalia
41	642	39.1	123	21	AAW57830 Escherichia coli s
42	641.5	39.1	273	18	AAW35082 E. coli serine ace
43	641.5	39.1	273	18	AAW35069 E. coli serine ace
44	641	39.1	253	21	AAW57831 Escherichia coli s
45	640.5	39.0	175	21	AAW44765 Corn serine O-acet

ALIGNMENTS

RESULT 1	
ID	AA645802 standard: Protein, 314 AA.
XX	
AC	AA645802;
XX	
DT	18-OCT-2000 (first entry)
XX	
DE	Arabidopsis thaliana protein fragment SEQ ID NO: 57548.
XX	
KW	Protein identification; signal transduction pathway; metabolic pathway;
KW	hybridisation assay; genetic mapping; gene expression control; promoter;
KW	termination sequence.
XX	
OS	Arabidopsis thaliana.
XX	
PN	EP1033405-A2.
XX	
PD	06-SEP-2000.
XX	
PF	25-FEB-2000; 2000EP-0301439.
XX	
PR	25-FEB-1999; 99US-0121825.
PR	05-MAR-1999; 99US-0123180.
PR	09-MAR-1999; 99US-0123548.
PR	23-MAR-1999; 99US-0125788.
PR	25-MAR-1999; 99US-0126264.
PR	29-MAR-1999; 99US-0126785.
PR	01-APR-1999; 99US-0127462.
PR	06-APR-1999; 99US-0128234.
PR	08-APR-1999; 99US-0128714.
PR	16-APR-1999; 99US-0129845.
PR	19-APR-1999; 99US-0130077.
PR	21-APR-1999; 99US-0130449.

PR 14-OCT-1999: 99US-0159637.
 PR 14-OCT-1999: 99US-0159638.
 PR 18-OCT-1999: 99US-0159584.
 PR 21-OCT-1999: 99US-0160741.
 PR 21-OCT-1999: 99US-0160767.
 PR 21-OCT-1999: 99US-0160768.
 PR 21-OCT-1999: 99US-0160770.
 PR 21-OCT-1999: 99US-0160814.
 PR 21-OCT-1999: 99US-0160815.
 PR 22-OCT-1999: 99US-0160980.
 PR 22-OCT-1999: 99US-0160981.
 PR 22-OCT-1999: 99US-0160989.
 PR 25-OCT-1999: 99US-0161404.
 PR 25-OCT-1999: 99US-0161405.
 PR 25-OCT-1999: 99US-0161406.
 PR 26-OCT-1999: 99US-0161359.
 PR 26-OCT-1999: 99US-0161360.
 PR 26-OCT-1999: 99US-0161361.
 PR 28-OCT-1999: 99US-0161920.
 PR 28-OCT-1999: 99US-0161922.
 PR 28-OCT-1999: 99US-0161993.
 PR 29-OCT-1999: 99US-0162142.

Query Match 100.0%; Score 1641; DB 21; Length 314;
 Best Local Similarity 100.0%; Pred. No. 2e-151;
 Matches 314; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MATCIDTCRTGNTQDDDSRCCIKNFRPGFSVNRKIHTHTQIEDDDVWIKMLEAKSDV 60
 DB 1 matcidtctrgntgdddsrfcciknfrpgfsvnrkihtqiedddvwlkmlleaksdv 60
 QY 61 KOEPLSNYYASTITSHRSLESALHLSVKLSNLPNTLPELFISVLEESPEIEST 120
 DB 61 kqepilsnnyastitshrslesalahlsvklslnlpntlfelfisvleespeiest 120
 QY 121 KODLIARKEPDPCISYVHCFKGFACQAHRIAHITLMKONRKIVALLIONRSESFA 180
 DB 121 kqdliaavkerdpacisylvhcfkfgflacqahriahltlwkgnrkivaallionrvesefa 180
 QY 181 VDHPGAKIGKGLLDHNAVGVIGETAVVGDVNSILHGYTLGCTGKOSGDRPKITGDVYL 240
 DB 181 vdihpgakigkglldhnavgvigetavvgnvsilhgytlgctgkqsgdthpxlqdvyl 240
 QY 241 IGAGSCITLGNITTEGAKIGSGSVVVKDVPARTTAVGNPARLIGKENRKHDKITPCLTM 300
 DB 241 igagscitlgnittegegakigsgsvvvkdvpartmentavgnparllygkenprkhdkipcltm 300
 QY 301 DQTSYLTWMSDYVI 314
 DB 301 dqtsyltewsdvyl 314

RESULT 2

AA93901
 ID AAY93901 standard; Protein: 314 AA.

AC AAY93901;

DT 03-OCT-2000 (first entry)

DE Amino acid sequence of serine acetyltransferase (SAT) isoform SAT3.

XX Serine acetyltransferase; SAT; SAT3; transgenic plant; cysteine;

KW glutathione; methionine; nutrient value; plant-derived food;

KM glutathione; viral resistance.

XX Arabidopsis thaliana.

XX WO200036127-A1.

XX 22-JUN-2000.
 PD 17-DEC-1999; 99WO-FR03179.
 XX PF

XX 17-DEC-1998; 98FR-0016163.
 XX (ANET) AVENTIS CROSCIENCE SA.
 PA Droux M, Lappartient A, Derose R, Job D;
 PI WPI: 2000-431603/37.
 DR N-PSDB; AAA47173.

XX Increasing production of sulfur-containing compounds, e.g. cysteine or
 PT methionine, in plants, useful e.g. for improving nutritional value, by
 PR overexpressing serine acetyltransferase

XX Claim 9; Page 50-51; 69pp; French.

CC The present sequence represents an isoform of serine acetyltransferase
 CC (SAT). The SAT polynucleotide is used to produce transgenic plants,
 CC which have increased production of cysteine, glutathione, methionine
 CC and their sulfur-containing derivatives. SAT catalyses conversion of
 CC serine to O-acetyls erine which is a precursor (by reaction with sulphide)
 CC for cysteine, itself a precursor for the other sulphur-containing
 CC compounds. The SAT polynucleotides and polypeptides are used to improve
 CC the nutrient value of plant-derived foods, and also (associated with
 CC increased production of glutathione) to improve resistance to stress.

XX Sequence 314 AA:

Query Match 100.0%; Score 1641; DB 21; Length 314;
 Best Local Similarity 100.0%; Pred. No. 2e-151;
 Matches 314; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MATCIDTCRTGNTQDDDSRCCIKNFRPGFSVNRKIHTHTQIEDDDVWIKMLEAKSDV 60
 DB 1 matcidtctrgntgdddsrfcciknfrpgfsvnrkihtqiedddvwlkmlleaksdv 60
 QY 61 KOEPLSNYYASTITSHRSLESALHLSVKLSNLPNTLPELFISVLEESPEIEST 120
 DB 61 kqepilsnnyastitshrslesalahlsvklslnlpntlfelfisvleespeiest 120
 QY 121 KODLIARKEPDPCISYVHCFKGFACQAHRIAHITLMKONRKIVALLIONRSESFA 180
 DB 121 kqdliaavkerdpacisylvhcfkfgflacqahriahltlwkgnrkivaallionrvesefa 180
 QY 181 VDHPGAKIGKGLLDHNAVGVIGETAVVGDVNSILHGYTLGCTGKOSGDRPKITGDVYL 240
 DB 181 vdihpgakigkglldhnavgvigetavvgnvsilhgytlgctgkqsgdthpxlqdvyl 240
 QY 241 IGAGSCITLGNITTEGAKIGSGSVVVKDVPARTTAVGNPARLIGKENRKHDKITPCLTM 300
 DB 241 igagscitlgnittegegakigsgsvvvkdvpartmentavgnparllygkenprkhdkipcltm 300
 QY 301 DQTSYLTWMSDYVI 314
 DB 301 dqtsyltewsdvyl 314

RESULT 3

AA645803
 ID AAG45803 standard; Protein: 263 AA.

AC AAG45803;

DT 18-OCT-2000 (first entry)

DE Arabidopsis thaliana protein fragment SEQ ID NO: 57549.

XX Protein identification; signal transduction pathway; metabolic pathway;

KW hybridisation assay; genetic mapping; gene expression control; promoter;

KM termination sequence.
 XX Arabidopsis thaliana.
 OS

XX EPI033405-A2.
XX 06-SEP-2000.
XX 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 22-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129645.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 04-MAY-1999; 99US-0132407.
PR 05-MAY-1999; 99US-0132484.
PR 06-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132487.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 18-MAY-1999; 99US-0134370.
PR 19-MAY-1999; 99US-0134768.
PR 20-MAY-1999; 99US-0134941.
PR 21-MAY-1999; 99US-0135124.
PR 24-MAY-1999; 99US-0135353.
PR 25-MAY-1999; 99US-0135629.
PR 27-MAY-1999; 99US-0136021.
PR 28-MAY-1999; 99US-0136392.
PR 01-JUN-1999; 99US-0136782.
PR 03-JUN-1999; 99US-0137222.
PR 04-JUN-1999; 99US-0137528.
PR 07-JUN-1999; 99US-0137502.
PR 08-JUN-1999; 99US-0137724.
PR 10-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 14-JUN-1999; 99US-0138847.
PR 16-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 17-JUN-1999; 99US-0139453.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139889.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144684.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 22-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147260.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.

RESULT	5
AA93904	
ID	AA93904 standard; Protein: 391 AA.
XX	
AC	AA93904;
XX	
DT	03-OCT-2000 (first entry)
XX	
DE	Amino acid sequence of serine acetyltransferase (SAT) isoform SAT1
XX	
KW	Serine acetyltransferase; SAT; SAT1; transgenic plant; cysteine;
KW	glutathione; methionine; nutrient value; plant-derived food;
XX	glutathione; viral resistance.
XX	
OS	Arabidopsis thaliana.
XX	
Key	
FH	Location/Qualifiers
FT	1..63
FT	Peptide
XX	/note="signal peptide"

PI	Droux M, Lappartient A, Derose R, Job D;
XX	
DR	WPI; 2000-431603/37.
DR	N-PSDB; AAA47176.
XX	

PT Increasing production of sulfur-containing compounds, e.g. cysteine or
PT methionine, in plants, useful e.g. for improving nutritional value, by
PT overexpressing serine acetyltransferase -
XX
XX
Disclosure: Page 54-56; 69pp; French.

The present sequence represents an isoform of serine acetyltransferase (SAT). The SAT polynucleotide is used to produce transgenic plants, which have increased production of cysteine, glutathione, methionine and their sulfur-containing derivatives. SAT catalyses conversion of serine to O-acetylserine which is a precursor (by reaction with sulphide) for cysteine, itself a precursor for the other sulphur-containing compounds. The SAT polynucleotides and polypeptides are used to improve the nutrient value of plant-derived foods, and also (associated with increased production of glutathione) to improve resistance to stress.

Query Match	74.0%;	Score 1215;	DB 21;	Length 391;
Best Local Similarity	72.0%;	Pred. No. 7.7e-110;		
Matches 242;	Conservative 31;	Mismatches 41;	Indels 22;	Gaps 4

[illegible]

Qy	219	VLLGCTGSGGSEGRHRTIGGTVLIGAGSCTIINNTTGEAKIGSSSVYKKQVDPATTAVGN	278
Db	296	VLGCTGCTGCGTGRhpkjgdvyligagctcljnlctlgagaklgagsvvldkvpptlttavn	355
Qy	279	PARLGGKENPRKHDKICPLIMDQTSYTEMSDYI	314
Db	356	parlllgkdnprctndkIprlImdgqshsiewsvdyl	391

RESULT	6
AAG52485	
ID	AAG52485 standard; Protein; 1772 AA.
XY	

AC AAG52485;

DT 18-OCT-2000 (first entry)
 YY

DE Arabidopsis thaliana protein fragment SEQ ID NO: 66722.
XX

KW protein denaturation; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter termination sequence.

OS Arabidopsis thaliana.

PN EP1033405-A2.

06-SEP-2000
PD

PF 25-FEB-2000; 2000EP-0301439

PR 25-FEB-1999; 99US-0121825

PR 09-MAR-1999; 99US-0123548.

PR	25-MAR-1999;	99US-0126264.
PR	28-MAR-1999;	00US-0126270.

PR	01-APR-1999;	99US-0127462.
PR	06-APR-1999;	00US-0128000.

PR	08-APR-1999;	99US-0128714-
PR	16-APR-1999;	99US-0130045-

PR	19-APR-1999;	99US-0130077.
PR	21-APR-1999;	99US-0130448.

PR 23-APR-1999: 99T5-0130881

30-APR-1999: 99US-0132048.

04-MAY-1999; 99US-0132484

06-MAY-1999; 99US-0132486.

07-MAY-1999; 99US-0132863.

PR 14-MAY-1999; 99US-0134218.

PR 14-MAY-1999; 99US-0134221.

PR 18-MAY-1999; 99US-0134768.

PR 20-MAY-1999; 99US-0135124.

PR 24-MAY-1999; 99US-0135629.

PR 27-MAY-1999; 99US-0136392.

PR 01-JUN-1999; 99US-0137222.

PR 04-JUN-1999; 99US-0137502.

PR 08-JUN-1999; 99US-0138094.

PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 22-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144306.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 21-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145222.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.

PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 27-AUG-1999; 99US-0151303.
PR 30-AUG-1999; 99US-0151438.
PR 31-AUG-1999; 99US-0151930.
PR 01-SEP-1999; 99US-0152363.
PR 07-SEP-1999; 99US-0153070.
PR 10-SEP-1999; 99US-0153758.
PR 13-SEP-1999; 99US-0154018.
PR 15-SEP-1999; 99US-0154039.
PR 16-SEP-1999; 99US-0154779.
PR 20-SEP-1999; 99US-0155139.
PR 22-SEP-1999; 99US-0155486.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158332.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 13-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 26-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 73.9%; Score 1213; DB 21; Length 1772;
Best Local Similarity 71.4%; Pred. No. 1, 1e-108;
Matches 240; Conservative 33; Mismatches 41; Indels 22; Gaps 4;
QY 1 MATCHDTCRTGNTQ-----DDDSRFCCIKKFFRPGS---VNRKIHHTQ--IED 44
||| ||||| ||| : | | |

Db 41 maacidctctgkbpqisprdeskhndesgfrymnyfrypdresingtkthlptlled 100
Qy 45 -----DDVWIMLEPAKSDVQOEPLSNVXYASTSHRSLESAHLKLSLNLNP 98
101 ldrdaeddwaklrealsadakepivasayhasvsgfslaaanlsklnlnp 160
Qy 99 SNTLFELFISVLEESPEIESTMODLIAVERDPACISVHCFPGKFLACQAHRIART 158
161 snlfdlfsqvgpndivesvklldlavrkerdpacisvvhclhkgflacqahriae 220
Qy 159 LMKONKRIYALLQONVSEFANDIHPGAKIGKGIILDHATGVIGETAVGDVNSILHG 218
221 lwcqdkrliallignvsaafavdihpgakigtgllldhataivgetavgnvslhn 280
Qy 219 VTLGCTGKQSGRHPKIGDGVILGAGSCILGNITIGEGAKIGSGVYWDVARTAVGN 278
281 vtlgctgkqcgdrhpkigdvilgagtcilgnitlgegakigsgvsvlkdvprrtaavn 340
Qy 279 PARLLGKGNPKRKHDKIPCLTMDQTSYLTWMSDYVI 314
341 parllgkgnpkhdkipcltmdqtshtsewsdyiv 376
Db

RESULT 7

AGS2484
ID AGS2484 standard: Protein; 1776 AA.

AGS2484;

18-OCT-2000 (first entry)

Arabidopsis thaliana protein fragment SEQ ID NO: 66721.

Protein identification; signal transduction pathway; metabolic pathway;
hybridisation assay; genetic mapping; gene expression control; promoter;
termination sequence.

Arabidopsis thaliana.

EP1033405-A2.

06-SEP-2000.

25-FEB-2000; 2000EP-0301439.

25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123160.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125768.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130851.
PR 30-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 04-MAY-1999; 99US-0132407.
PR 05-MAY-1999; 99US-0132484.
PR 06-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132487.
PR 11-MAY-1999; 99US-0132863.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 18-MAY-1999; 99US-0134570.
PR 18-MAY-1999; 99US-0134768.

PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136382.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 21-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 24-JUN-1999; 99US-0140354.
PR 28-JUN-1999; 99US-0140695.
PR 29-JUN-1999; 99US-0140823.
PR 30-JUN-1999; 99US-0140991.
PR 01-JUL-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 02-JUL-1999; 99US-0142154.
PR 06-JUL-1999; 99US-0142055.
PR 08-JUL-1999; 99US-0142390.
PR 09-JUL-1999; 99US-0142803.
PR 12-JUL-1999; 99US-0142920.
PR 13-JUL-1999; 99US-0142977.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 20-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144632.
PR 21-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0145086.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 23-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145218.
PR 26-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.

[illegible]

PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137228.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 24-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144814.

PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145089.
PR 23-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145219.
PR 26-JUL-1999; 99US-0145224.
PR 27-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 03-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148555.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157765.
PR 06-OCT-1999; 99US-0157853.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.

	RESULT	9
ID	AAG08083	
AC	AAG08083 standard; Protein; 180 AA.	
XX		
DT	17-OCT-2000 (first entry)	
XX		
DE	Arabidopsis thaliana protein fragment SEQ ID NO: 5483.	
XX		
KW	Protein identification; signal transduction pathway; metabolic pathway;	
KM	hybridisation assay; genetic mapping; gene expression control; promoter	
XX	termination sequence.	
OS	Arabidopsis thaliana.	
PN	EP1033405-A2.	
PD		
XX		
PF	06-SEP-2000.	
XX		
PR	25-FEB-2000; 2000EP-0301439.	
PR	25-FEB-1999; 99US-0121825.	
PR	03-MAR-1999; 99US-0123180.	

PR	03-MAR-1999	9905-01235548
PR	23-MAR-1999	9905-01257878
PR	25-MAR-1999	9905-01262624
PR	29-MAR-1999	9905-01267462
PR	01-APR-1999	9905-01274522
PR	06-APR-1999	9905-01288234
PR	08-APR-1999	9905-01287814
PR	16-APR-1999	9905-01298455
PR	19-APR-1999	9905-01300747
PR	21-APR-1999	9905-01300449
PR	23-APR-1999	9905-01305101
PR	25-APR-1999	9905-01308911
PR	28-APR-1999	9905-01311449
PR	30-APR-1999	9905-01320448
PR	04-MAY-1999	9905-01324047
PR	05-MAY-1999	9905-01324845
PR	06-MAY-1999	9905-01324846
PR	06-MAY-1999	9905-01324846
PR	07-MAY-1999	9905-01324863
PR	11-MAY-1999	9905-01324862
PR	14-MAY-1999	9905-01342118
PR	14-MAY-1999	9905-01342119
PR	14-MAY-1999	9905-01342221
PR	14-MAY-1999	9905-01343730
PR	18-MAY-1999	9905-01343768
PR	19-MAY-1999	9905-01349411
PR	20-MAY-1999	9905-01351244
PR	21-MAY-1999	9905-01353533
PR	24-MAY-1999	9905-01353539
PR	25-MAY-1999	9905-01360211
PR	27-MAY-1999	9905-01363932
PR	28-MAY-1999	9905-01367812
PR	01-JUN-1999	9905-01373222
PR	03-JUN-1999	9905-01375258
PR	04-JUN-1999	9905-01375202
PR	07-JUN-1999	9905-01377224
PR	08-JUN-1999	9905-01380944
PR	10-JUN-1999	9905-01385440
PR	10-JUN-1999	9905-01388447
PR	14-JUN-1999	9905-01391119
PR	16-JUN-1999	9905-01394512
PR	16-JUN-1999	9905-01394543
PR	17-JUN-1999	9905-01394542
PR	18-JUN-1999	9905-01394544
PR	18-JUN-1999	9905-01394640
PR	18-JUN-1999	9905-01394641
PR	18-JUN-1999	9905-01394642
PR	18-JUN-1999	9905-01394643
PR	18-JUN-1999	9905-01397540
PR	18-JUN-1999	9905-01397643
PR	21-JUN-1999	9905-01398117
PR	22-JUN-1999	9905-01398917
PR	23-JUN-1999	9905-01403553
PR	23-JUN-1999	9905-01403554
PR	24-JUN-1999	9905-01406345
PR	28-JUN-1999	9905-01408823
PR	29-JUN-1999	9905-01409821
PR	30-JUN-1999	9905-01412847
PR	01-JUL-1999	9905-01414842
PR	01-JUL-1999	9905-01421514
PR	02-JUL-1999	9905-01421505
PR	06-JUL-1999	9905-01423900
PR	08-JUL-1999	9905-01428033
PR	09-JUL-1999	9905-01428200
PR	12-JUL-1999	9905-01428277
PR	13-JUL-1999	9905-01433424
PR	14-JUL-1999	9905-01433624

```

PR 15-JUL-1999; 99US-0144005;
PR 16-JUL-1999; 99US-0144085;
PR 16-JUL-1999; 99US-0144086;
PR 19-JUL-1999; 99US-0144325;
PR 19-JUL-1999; 99US-0144331;
PR 19-JUL-1999; 99US-0144332;
PR 19-JUL-1999; 99US-0144333;
PR 19-JUL-1999; 99US-0144334;
PR 19-JUL-1999; 99US-0144335;
PR 20-JUL-1999; 99US-0144352;
PR 20-JUL-1999; 99US-0144632;
PR 21-JUL-1999; 99US-0144884;
PR 21-JUL-1999; 99US-0145086;
PR 21-JUL-1999; 99US-0145088;
PR 22-JUL-1999; 99US-0145085;
PR 22-JUL-1999; 99US-0145087;
PR 22-JUL-1999; 99US-0145089;
PR 23-JUL-1999; 99US-0145192;
PR 23-JUL-1999; 99US-0145145;
PR 23-JUL-1999; 99US-0145218;
PR 23-JUL-1999; 99US-0145224;
PR 26-JUL-1999; 99US-0145276;
PR 27-JUL-1999; 99US-0145913;
PR 27-JUL-1999; 99US-0145918;
PR 27-JUL-1999; 99US-0145919;
PR 28-JUL-1999; 99US-0145951;
PR 28-JUL-1999; 99US-0145951;
PR 02-AUG-1999; 99US-0146386;
PR 02-AUG-1999; 99US-0146388;
PR 02-AUG-1999; 99US-0146389;
PR 03-AUG-1999; 99US-0147038;
PR 04-AUG-1999; 99US-0147204;
PR 04-AUG-1999; 99US-0147302;
PR 05-AUG-1999; 99US-0147192;
PR 05-AUG-1999; 99US-0147260;
PR 06-AUG-1999; 99US-0147303;
PR 06-AUG-1999; 99US-0147416;
PR 09-AUG-1999; 99US-0147493;
PR 09-AUG-1999; 99US-0147935;
PR 10-AUG-1999; 99US-0148171;
PR 11-AUG-1999; 99US-0148319;
PR 12-AUG-1999; 99US-0148341;
PR 13-AUG-1999; 99US-0148565;
PR 13-AUG-1999; 99US-0148684;
PR 16-AUG-1999; 99US-0149368;
PR 17-AUG-1999; 99US-0149375;
PR 18-AUG-1999; 99US-0149426;
PR 20-AUG-1999; 99US-0149722;
PR 20-AUG-1999; 99US-0149723;
PR 20-AUG-1999; 99US-0149929;
PR 23-AUG-1999; 99US-0149902;
PR 23-AUG-1999; 99US-0149930;
PR 23-AUG-1999; 99US-0150566;
PR 26-AUG-1999; 99US-0150884;
PR 27-AUG-1999; 99US-0151065;
PR 27-AUG-1999; 99US-0151066;
PR 27-AUG-1999; 99US-0151080;
PR 30-AUG-1999; 99US-0151303;
PR 31-AUG-1999; 99US-0151338;
PR 01-SEP-1999; 99US-0151330;
PR 07-SEP-1999; 99US-0152363;
PR 10-SEP-1999; 99US-0153070;
PR 13-SEP-1999; 99US-0153758;
PR 15-SEP-1999; 99US-0154018;
PR 16-SEP-1999; 99US-0154039;
PR 20-SEP-1999; 99US-0154779;
PR 22-SEP-1999; 99US-0155139;
PR 23-SEP-1999; 99US-0155486;
PR 24-SEP-1999; 99US-0155659;
PR 28-SEP-1999; 99US-0156458;
PR 29-SEP-1999; 99US-0156596;
PR 04-OCT-1999; 99US-0157117;
PR 05-OCT-1999; 99US-0157753;

```

```

PR 06-OCT-1999; 99US-0157865;
PR 07-OCT-1999; 99US-0158029;
PR 08-OCT-1999; 99US-0158232;
PR 12-OCT-1999; 99US-0158369;
PR 13-OCT-1999; 99US-0159293;
PR 13-OCT-1999; 99US-0159294;
PR 13-OCT-1999; 99US-0159295;
PR 14-OCT-1999; 99US-0159329;
PR 14-OCT-1999; 99US-0159330;
PR 14-OCT-1999; 99US-0159331;
PR 14-OCT-1999; 99US-0159637;
PR 14-OCT-1999; 99US-0159638;
PR 18-OCT-1999; 99US-0159584;
PR 21-OCT-1999; 99US-0160741;
PR 21-OCT-1999; 99US-0160767;
PR 21-OCT-1999; 99US-0160768;
PR 21-OCT-1999; 99US-0160770;
PR 21-OCT-1999; 99US-0160814;
PR 21-OCT-1999; 99US-0160815;
PR 22-OCT-1999; 99US-0160980;
PR 22-OCT-1999; 99US-0160981;
PR 22-OCT-1999; 99US-0160989;
PR 25-OCT-1999; 99US-0161404;
PR 25-OCT-1999; 99US-0161405;
PR 25-OCT-1999; 99US-0161406;
PR 26-OCT-1999; 99US-0161359;
PR 26-OCT-1999; 99US-0161360;
PR 26-OCT-1999; 99US-0161361;
PR 26-OCT-1999; 99US-0161920;
PR 28-OCT-1999; 99US-0161920;
PR 28-OCT-1999; 99US-0161993;
PR 29-OCT-1999; 99US-0162142;

```

```

Query Match 55.8%; Score 916; DB 21; Length 180;
Best Local Similarity 97.2%; Pred. No. 3; le-81;
Matches 175; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

```

```

Oy 1 MATCIDTCRTGNTDDDSRFCCIKNFPFGFSVNRKTHHTQIEDDDDDVWTKMLEAKSDV 60
Db 1 matchhcterrtgnctgdddsrfccinkkffrpgfsvnrkkihnhqiedddvwmkakeesdv 60
Oy 61 KOEPLISNYYVASTSHRSLESALAHILSVKLSNLT.PSNTLFEPLFSVLEESPELIEST 120
Db 61 kqepllsnyyvasltsrhslsahllsvklsnlnpntllfelflsvleespeleest 120
Oy 121 KODLAVKERDPACISYVHCFGRFLACQAHRIATHLWKNKKRYALLIONVSESFA 180
Db 121 kqdlavkerdpacisylvhcfgrflacqahrhahltwqgnkivalllqnvsesfa 180

```

```

RESULT 10
ID AAY44770
AAAY44770 standard; Protein: 286 AA.
XX
AC AAY44770;
XX
DT 04-MAY-2000 (first entry)
XX
DE Soybean serine O-acetyltransferase-1.
XX
KW Serine O-acetyltransferase; sulphate assimilation; O-acetylserine;
KW soybean; clone srl.pk0162.49; cysteine formation; marker; probe;
KW plant breeding; transgenic plant.
XX
OS Glycine max.
XX
XX WO200004167-A2.
XX
XX 27-JAN-2000.
XX
PD 13-JUL-1999; 99WO-US15872.
XX
PF 14-JUL-1998; 98US-0092833.
XX

```

PD	06-SEP-2000.	
XX		
FE	25-FEB-2000;	2000EP-0301439
FX		
PR	25-FEB-1999;	990S-0121825
PR	05-MAR-1999;	990S-0123180
PR	09-MAR-1999;	990S-0123548
PR	23-MAR-1999;	990S-0125788
PR	20-MAR-1999;	990S-0126264
PR	01-APR-1999;	990S-0126785
PR	06-APR-1999;	990S-0127462
PR	08-APR-1999;	990S-0128334
PR	16-APR-1999;	990S-0128714
PR	19-APR-1999;	990S-0129845
PR	21-APR-1999;	990S-0130077
PR	23-APR-1999;	990S-0130649
PR	28-APR-1999;	990S-0130510
PR	30-APR-1999;	990S-0130891
PR	30-APR-1999;	990S-0131449
PR	03-MAY-1999;	990S-0132048
PR	04-MAY-1999;	990S-0132340
PR	05-MAY-1999;	990S-0132484
PR	06-MAY-1999;	990S-0132485
PR	06-MAY-1999;	990S-0132486
PR	07-MAY-1999;	990S-0132487
PR	11-MAY-1999;	990S-0132863
PR	14-MAY-1999;	990S-0134256
PR	14-MAY-1999;	990S-0134218
PR	14-MAY-1999;	990S-0134219
PR	14-MAY-1999;	990S-0134321
PR	18-MAY-1999;	990S-0134370
PR	19-MAY-1999;	990S-0134768
PR	20-MAY-1999;	990S-0134941
PR	21-MAY-1999;	990S-0135312
PR	24-MAY-1999;	990S-0135353
PR	25-MAY-1999;	990S-0135629
PR	27-MAY-1999;	990S-0136021
PR	28-MAY-1999;	990S-0136392
PR	01-JUN-1999;	990S-0136782
PR	03-JUN-1999;	990S-0137222
PR	04-JUN-1999;	990S-0137502
PR	07-JUN-1999;	990S-0137872
PR	08-JUN-1999;	990S-0138094
PR	10-JUN-1999;	990S-0138540
PR	14-JUN-1999;	990S-0138847
PR	14-JUN-1999;	990S-0139119
PR	16-JUN-1999;	990S-0139452
PR	16-JUN-1999;	990S-0139453
PR	17-JUN-1999;	990S-0139452
PR	18-JUN-1999;	990S-0139452
PR	18-JUN-1999;	990S-0139454
PR	18-JUN-1999;	990S-0139455
PR	18-JUN-1999;	990S-0139456
PR	18-JUN-1999;	990S-0139457
PR	18-JUN-1999;	990S-0139763
PR	21-JUN-1999;	990S-0139817
PR	22-JUN-1999;	990S-0139869
PR	23-JUN-1999;	990S-0140033
PR	24-JUN-1999;	990S-0140354
PR	28-JUN-1999;	990S-0140695
PR	28-JUN-1999;	990S-0140823
PR	29-JUN-1999;	990S-0140931
PR	30-JUN-1999;	990S-0141287
PR	01-JUL-1999;	990S-0141842
PR	01-JUL-1999;	990S-0142051
PR	02-JUL-1999;	990S-0142055


```

Db      97 dltvaslaahpcliiraavvadllaersrpdacvgyfshcllnykgflaiaqgrvanhvwqd 156
QY      164 RKTVALLLIONRVSESEPAVDIHPCAKTGGKILDDHATGVYIGETAVVGDVNSILHGVTLGG 223
Db      157 rralalalqgrvaevfavdhpaaalgkylldhatgvvlgelavlgdhnvslhhvcll99 216
QY      224 TKGQSGDRHPRKIGDGYLIGAGSCILGNITIGGAKIGSGSVVVKDVPARTTAVGNPARLI 283
Db      217 t9kavgt9p9kigdgvylligegatllgnvrlgagaki9agsl9l9dvprt9tavgnparl 276
QY      284 GGENPRKHDKIPCLTMDOTSYLLEWSDYVI 314
Db      277 g9k----kgddmpgesmdhtsfliqwsdy9sl 303

```

Search completed: August 21, 2001, 12:07:44
 Job time: 91 sec